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INFORMATION ON EAST EUROPEAN SCIENTIFIC PERSONALITIES

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## FOREWORD

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**INFORMATION ON EAST EUROPEAN SCIENTIFIC PERSONALITIES**

[Following is a translation of articles on the specific subjects reflected in the table of contents. Complete bibliographic information accompanies each article.]

**TABLE OF CONTENTS**

	<b><u>Page</u></b>
Biographical Sketches of Bulgarian Hydrological Engineers	1
From the Work of the Commission on the Qualifications of Scientific Workers and Sections of the Polish Academy of Sciences	6
Authors of Articles Appearing in Issue No. 2 of "Work of the Institute of Tele- and Radio-Engineering"	8

## BIOGRAPHICAL SKETCHES OF BULGARIAN HYDROLOGICAL ENGINEERS

[Following is a translation of an article by Prof. Engr. Iliya Gadzhalski in the Bulgarian-language periodical Khidrotekhnika i Melioratsii (Hydraulic Engineering and Reclamation), No 1, Sofia, 1962, pages 31-32.]

The collective of the Hydraulic Engineering Faculty of the Engineering and Construction Institute solemnly celebrated on 15 March 1962 the sixtieth anniversary of the following distinguished professors, scientific workers, and public figures:

Prof. Dr. Engr. Todor Stefanov Radoslavov, Prof. Dr. Engr. Nikola Uzunov, Prof. Engr. Boris Asenov Marchinkov, and Prof. Engr. Dimitur Tsvetkov Vurbanov. Representatives of the institute, of public organizations, of the respective administrative offices, and of the scientific research institutes at which our prominent specialists work as teachers, scientists, and technicians, were present at this celebration.

Prof. Dr. Engr. Todor Stefanov Radoslavov

Professor Radoslavov, Chairman of the chair for Utilization of Water Power and Hydrology, was born 3 October 1899 in Turnovo, and descended from a teaching family. He received his primary and secondary education in Turnovo, Kolarovgrad, and Sofia. In February 1926, he graduated from the Construction Department of the Berlin Higher Polytechnic School with "very good" marks. Afterwards he began to work as an engineer in the Hydrological Service in Sofia, where he remained 17 years. During this time he successfully held all engineering positions, including the post of "water director."

In 1942, he was appointed professor and chairman of the chair of Hydro-Construction at the State Higher Polytechnic School in Sofia. He did advanced study during 1943 in Vienna, Berlin, Dresden, and Graz and obtained the doctor-engineer degree from the Berlin Higher

### Polytechnic School.

After the establishment of the Hydraulic Engineering Faculty and the reorganization of the chairs, he became chairman of the chair for Utilization of Water Power and Hydrology, which position he continues to hold.

He has been awarded the Honor Badge of city of Sofia, the order of Sv. Aleksandur [Saint Alexander] 4th degree and the order of Kiril i Metodi [Cyril and Methodius] 1st degree.

Professor Radoslavov has written ten scientific works, such as Dnevните izravniteli pri VETs [Daily Levelers in the Hydroelectric Power Plants]; Vurkhu opredelyane na stopanski nay-izgodnata stepen na techashti vodi [Determining the Economically Most Profitable Degree of Construction of Hydroelectric Power from Flowing Water], etc., some of which have been published abroad. He has also written five textbooks and many scientific and popular scientific articles in the field of the water control. He has investigated, designed, and supervised the construction of tens of projects in our country and has written many reviews on books, dissertations, scientific papers, etc.

The activities of Prof. Radoslavov have contributed very much to the development of hydraulic construction in our country.

### Prof. Dr. Engr. Nikola Uzunov

Professor Uzunov, Chairman of the chair of Descriptive Geometry and Technical Design, was born in Svishtov in 1900. In 1918, he graduated from the 2nd Gymnasium in Sofia. Afterwards he continued his studies in electrical engineering in Munich, where he graduated in 1923. Back in Bulgaria, he took the position of an engineer-instructor at the school for telegraph and post-office employees. At the end of 1928, he went to the US, where he was hired to work in a testing laboratory in Chicago and afterwards in New York. At this time he attended evening courses for one semester in tensor analysis at the University of Chicago.

After his return to Bulgaria, he took the position of an engineer in the construction of the telephone installations between Sofia and Lom, and between Sofia and Gorna Oryakhovitsa. In 1935, he graduated from the University of Sofia in mathematics, and the following year 1936 he went to Paris where he did advanced study in higher geometry. In 1939, he obtained the doctor's degree in mathematics from the Hanseatic University in Hamburg.

In 1940, he returned to Bulgaria, and took a position of teacher at the Khristo Botev Technical School. When the State Higher Polytechnic School was established in Sofia in 1942, Prof. Uzunov qualified



for lecturer in Descriptive Geometry and Technical Design.

Prof. Uzunov has written 15 scientific works, such as Vurkhu granitsite na tochnost pri izmervane na samo-induktzii i kapatsiteti [Limits of Preciseness in Measurement of Self-Inductions and Capacities]; Vurkhu chetiri dimosionalnata problema na krivite Ricci v rimenovoto prostranstvo [Four Dimensional Problems of the Ricci Curves in Riemann's Field], etc. He has written four textbooks, many scientific and popular scientific articles, reviews, etc.

Since 1949, Prof. Uzunov has been chief editor of the Annual of the ISI [Inzhinerno-Stroitelnen Institut -- Engineering and Construction Institute].

Prof. Engr. Boris Asenov Marchinkov

Prof. Marchinkov was born 12 February 1901 in Constantza, Rumania. He attended the primary school in his native town, and received his secondary education in Sofia. He graduated in meliorative engineering from the Higher Technical School in Vienna in 1932.

In September 1932, he began to work in the Hydrological Department where he made his career and successfully worked in all services, including the position of chief inspector and chief of the Division of Hydrology.

In 1935, Prof. Marchinkov laid the basis for systematic hydraulic research in our country. This research has played an important role in our hydraulic engineering construction since 9 September 1944.

He won a competition and was appointed on 1 March 1946 as professor and chairman of the chair for Hydrology and Hydraulics; and after the establishment of the Hydraulic Engineering Faculty, he became professor and chairman of the chair of Hydrology and Meteorology.

Prof. Marchinkov has written 24 work on hydrological problems; in his works he has given formulas, criteria, and methods which have been adopted in practice in our country and abroad. Some of his works have been published by the Bulgarian Academy of Sciences and the Hungarian Academy of Sciences. He has written textbooks, such as Zapiski po khidrologiya [Notes in Hydrology] and Zapiski po khidrologiya i khidravluka [Notes in Hydrology and Hydraulics]. He is one of the founders of periodical Khidrologiya [Hydrology], founded in 1950, and its first chief editor. He is a member of the editorial staff of the periodical Khidrologiya i meteorologiya [Hydrology and Meteorology]. Beside his lectures in the ISI, he has lectured at the Mining and Geological Institute, and he also lectures at the Faculty of Physics and Mathematics and at the G. Dimitrov Higher

**Agricultural Institute in Sofia.**

At the anniversary session of the Hungarian Academy of Sciences in 1955, Prof. Marchinkov delivered a scientific report which was published as a separate volume of the Hungarian Academy of Sciences.

The scientific and practical work of Prof. Marchinkov has contributed a great deal to the development of hydrology in our country.

**Prof. Engr. Dimitur Tsvetkov Vurbanov**

Prof. Vurbanov, Chairman of the Chair of Water Supply and Sewerage, was born 10 September 1901 in Elkhovo. He graduated from the secondary technical school in Sofia in 1926. He received his higher education in Gent, Belgium, where he graduated in construction engineering in 1932. From 1932 to 1948 he served in Sofia, Blagoevgrad, and Plovdiv as an engineer in the field of water supply and sewerage and as chief of the Water Supply and Sewerage Department of the Ministry of Public Works.

From 1932 to 1948, Prof. Vurbanov studied, designed and supervised the construction of about 73 projects for Bulgaria's water supply and sewerage works.

In 1948, on the basis of a competition, he was appointed professor in Water Supply and Sewerage at the University of Varna. From 1948 to 1951, he was the rector of this university. In 1951, he was appointed professor at the Hydraulic Engineering Faculty in Sofia. He has been chairman of the chair of Sewerage and for many years he has been the dean of the Hydraulic Engineering Faculty, which post he also holds now.

Prof. Vurbanov has written the following textbooks and manuals: Kanalizatsiya [Sewerage], Parts I and II, and Tablitsi za orazmeryavane na kanalizatsionnata mreza [Proportion Tables in Sewerage Works]. He has written several scientific works, such as Zadurzhatelni rezervoari pri smesenata i duzhdovna kanalizatsionni sistemi [Retaining Reservoirs in Mixed and Rain Sewerage Systems]; Prechistvane na kanalnite vodi [Purification of Sewer Waters]; Po vuprosa za khorizontalnite razmeri na pravougulnite rezervoari [Horizontal Dimensions of Rectangle Reservoirs], etc.

Prof. Vurbanov is a member of the Higher Certification Commission. He has been awarded the order of "Kiril i Metodi" 1st degree and the order of "Civic Merit."

By his scientific work, Prof. Vurbanov has contributed much to the development of hydraulic construction in our country.

The honored professors are examples of good teachers and specialists who give all their energy for the preparation of young engineering technical workers, assisting designers, and working out scientific problems. Their consistent engineering and technical work, their activity as professors and scientific researchers, and their role in public life, single them out as great specialists who raise the level of our science and the education of our youth, and represent in the best manner our Hydraulic Engineering Faculty in our country as well as abroad.

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FROM THE WORK OF THE COMMISSION ON THE QUALIFICATIONS  
OF SCIENTIFIC WORKERS AND SECTIONS OF THE POLISH  
ACADEMY OF SCIENCES

- Poland -

Following is a translation of an article by  
Anastazja Strus of the Polish Academy of Sciences'  
Bureau for Education and Improvement of Scientific  
Cadre in the Polish-language publication  
Nauka Polska (Polish Science), Warsaw, Vol 10,  
No 4, 1962, pp 177-182.

The Commission on the Qualification of Scientific  
Workers in the period of January 1 to April 15, 1962 confirmed the resolutions of the scientific councils on the matter of granting the scientific degrees of Doctor and Docent.

I. Section on Social Sciences by a resolution April 10, 1962 confirmed:

a) degree of Doctor of Humanistic Sciences

1) Master Krzysztof D a b r o w s k i--granted by a resolution of the Scientific Council of the Institute of the History of Material Culture of PAN /Polska Akademia Nauk; Polish Academy of Sciences/ in Warsaw February 9, 1962 on the basis of the doctoral dissertation presented under the title Kalisia Ptolemeuszowa swietle badan archeologicznych in the Light of Archeologic Research and the doctoral examinations taken.

2) Master Romuald S c h i l d--granted by a resolution of the Scientific Council of Institute of the history of Material Culture of PAN in Warsaw February 9, 1962 on the basis of the presented doctoral dissertation under the title of Chronologia przemyslow cyklu mazowszanskiego i przemyslow pokrewnych na tle chronologii poznego paleolitu i nowego Europy srodkowej i zachodniej (The Chronology of Industries of the Mazovian Cycle and Related Industries on

filters in the Tele- and Radio Engineering Institute. At present he is working in the M. Kaprzak Developmental Office Radio Establishments (Biuro Rozwojowe Zakladow Radiowych) in Warsaw.

The biography and photograph of master engineer FRANCISZEK KAMINSKI were included in No 3(9) of the Work of ITR in 1959.

Master Engineer KAZIMIERZ TABAKA was born February 19, 1933 in the town of Baranowo, Przasnysz Powiat, Warsaw Wojewodztwo. During the years 1953-60 he studied in the Communications Section of the Warsaw Politechnic School where he obtained the degree of master engineer in the field of radioengineering in 1960. In July, 1959, he began to work in the Metrology Department (Zaklad Miernictwa) of ITR on the problems of frequency stabilization. At present he is working on digital techniques applied to automatic metrology problems; he is the director of the Laboratory for Automation of Measurements. In 1961 he received the position of assistant.

Master Engineer JAN MIERZEJEWSKI was born July 3, 1923 in Warsaw. He began study in 1945 in the Communications Section of the Warsaw Politechnic School and in 1951 obtained the degree of master engineer in the field of radiotechnology. During the years 1951-53 he worked in the area of radio engineering metrology in the Institute of Physical Metallurgy and Scientific Laboratory Apparatus, and in the years 1954-56 in the Industrial Telecommunications Institute. Since 1956 he has been working in the area of television metrology in the Television Receiving Laboratory of the Tele- and Radio-Engineering Institute of (Zaklad Telewizji Odbiorczej) as director of the Television Metrology Group. (Pracownia Miernictwa Telewizyjnego) In January 1962 he received the position of adiunkt.

Master Engineer ELZBIETA SUCHARZEWSKA was born December 2, 1935 in Biala Podlaska. She began studying in 1953 in the Communications Department of the Warsaw Politechnic School and in 1960 obtained the degree of master engineer in communications with a specialization in radio engineering. Since January 1959 she has been working in the Institute of Tele- and Radio-Engineering in the Laboratory of Colorimetric Measurements, specializing in problems of the generation of measurement impulse signals. In January, 1962 she received the position of assistant.

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AUTHORS OF ARTICLES APPEARING IN ISSUE NO. 2 OF "WORK  
OF THE INSTITUTE OF TELE- AND RADIO-ENGINEERING"

-Poland-

Following is a translation of an article in  
the Polish-language publication Prace Instytutu  
Telei Radiotechnicznego (Work of the Institute  
of Tele- and Radio-Engineering), Warsaw, Vol.  
6, No 2, 1962, pages 119-20.

Master Engineer ANDRZEJ SMOLARSKI was born December 11, 1927 in Cracow. During the years 1947-1951 he studied in the Electrical Section of the Silesian Polytechnic School (Slask Politechnika) in Gliwice, obtaining in 1951 the degree of master engineer in the field of radio-technology. He then began work in the Industrial Telecommunications Institute, and in 1959 in the Institute of Tele- and Radio-Engineering in Warsaw. Since 1954 he has directed in turn the Laboratory on Generation, Stabilization and Frequency Standards, the Laboratory on Microwave Generation, the Laboratory on Highly Stable Networks (quartz) and recently the Laboratory of the Metrology of Stable Subsets. He is specializing in the fields of generation, stabilization of standards and exact frequency measurements, as well as temperature coefficients of volume and induction and thermostat systems. In 1959 he was given the position of adiunkt in ITR /Instytut Tele- i Radiotechniczny; Institute of Tele- and Radio-Engineering.

Master ANDRZEJ WESOLOWSKI was born October 4, 1932 in Poznan. During the years 1950-1959 he studied in the section on Mathematics, Physics and Chemistry at the Adam Mickiewicz University in Poznan, where he specialized in the field of physics of solid bodies. In 1959 he obtained the degree of master of physics. Since 1953 as Assistant to Professor Doctor A. Piekara in the Chair of Physics he undertook ferroelectricity problems. In August, 1958, he moved to Warsaw and worked on the theory of electromechanics

the Chronology of late Upper Paleoliths of Middle and Western Europe) and the doctoral examinations taken.

b) degree of Docent

1) Doctor Tadeusz J e d r u s z c z a k--granted by a resolution of the Scientific Council of the Institute of History of PAN in Warsaw December 5, 1961 on the basis of general scientific contributions and habilitational dissertation under the title of Powstanie Obozu Zjednoczenia Narodowego (1937) (Insurrection of the League of Nations (1937).)

II. Section on Biological, Medical, and Agricultural Sciences confirmed March 30, 1962 by a resolution:

a) degree of Doctor of Agricultural and Forest Sciences

1) Master Antoni N o w i c k i--granted by a resolution of the Scientific Council of the Institute of Animal Husbandry and the Acclimatization Plant in Warsaw December 8, 1960 on the basis of the doctoral dissertation presented under the title of Badania nad wpływem niektórych mikroelementów na plan, zdrowotność i technologiczne cechy buraka cukrowego w warunkach polowych (Research on the Influence of Some Microelements on Crops, Health, and technological Characteristics of the Sugar Beet in Field Conditions) and the doctoral examinations presented.

b) degree of Doctor of Medicine

1) Lekarz Mieczysław U r b a n--granted by a resolution of the Scientific Council of the Mother and Child Institute in Warsaw, March 14, 1961 on the basis of the doctoral dissertation presented under the title Badania białek masy szpikowej i krwi obwodowej u królików i psów zdrowych (Research on Proteins of the Marrow Mass and Reserve Blood in Healthy Rabbits and Dogs) and the doctoral examinations taken.

III. Section on Mathematical, Physical, Chemical, and Earth Sciences by resolutions of February 2 and April 6, 1962 confirmed.

a) the degree of Doctor of Natural Sciences

1) Master Engineer Jerzy B o r u c k i--granted by a resolution of the Scientific Council of the Geological Institute in Warsaw, June 14, 1961, on the basis of the doctoral dissertation presented under the title of Uran w polskich fosforytach (Uranium in Polish Phosphites) and the doctoral examinations taken.

2) Master Engineer Antoni Mieczysław D a n c e w i c z--granted by a resolution of the Scientific Council of the Institute of Nuclear Research in Warsaw June 15, 1962, on

the basis of the doctoral dissertation presented under the title Wplyw promieniowania jonizujacego na niektore układy enzymatyczne biorace udzial w biosyntezie hemu (The Influence of Ionizing Radiation on Some Enzymatic Systems Participating in the Biosynthesis of Heme) and the doctoral examinations taken.

3) Master Engineer Andrzej L u k a s i e w i c z--granted by a resolution of the Scientific Council of the Institute of Nuclear Research in Warsaw February 26, 1962, on the basis of the doctoral dissertation presented under the title Badanie mechanizmu redukcyjnego dzialania kwasu mrowkowego na zasady Schiffs (Research on the Reduction Mechanism of the Action of Formic Acid on the Schiff's Bases.)

4) Master Wieslaw Aleksander N o w a k--granted by a resolution of the Scientific Council of the Institute for Nuclear Research in Warsaw December 8, 1961, on the basis of the doctoral dissertation presented under the title Geologia brzegu karpackiego miedzy Wisla a Sola (Geology of the Carpathian Edge Between the Vistula and the Sola) and the doctoral examinations taken.

5) Master Engineer Leon Romauld Pszonicki--granted by a resolution of the Scientific Council of the Institute of Nuclear Research in Warsaw February 26, 1962 on the basis of the doctoral dissertation presented under the title of Wstepna destylacja frakcyjna probek spektrograficznych w obecnosci nosnikow spektroskopowych (Preliminary Fractional Distillation of Spectrographic Samples in the Presence of Spectroscopic Carriers) and the doctoral examinations taken.

6) Master Edmund Szymon Rutkowski--granted by a resolution of the Scientific Council of the Geological Institute in Warsaw, December 8, 1961, on the basis of the doctoral dissertation presented under the title Ozwartorzec Wysoczyzny Polnocnokoninskiej (Quaternary Period in the North Konin Highlands) and doctoral examinations taken.

7) Master Janusz A M U b e r n a--granted by a resolution of the Scientific Council of the Geological Institute in Warsaw, June 14, 1961, on the basis of the doctoral dissertation presented under the title Rozwojserii fosforytonosnej polnocnego obrzezenia Gor Swietokraskich na tle zagadnien sedymentologicznych albu i cenomanu (The Development of the Phosphite-bearing of the Northern Ridge of the Holy Cross Mountains on the Background of Sedimentological Problems of Alb and Cenoman ) and the doctoral



examinations taken.

b) degree of Doctor of Mathematico-Physical Sciences

1) Master Engineer Wincenty Michal K o r p a k--granted by a resolution of the Scientific Council of the Institute of Atom Research in Warsaw, December 5, 1961, on the basis of the doctoral dissertations presented under the title Ekstrakcja soli uranu i kwasow mineralnych sulfotlenkami alkilowymi (Extraction of Uranium Salts and Mineral Acids with Alkaline Sulfoxides) and the doctoral examinations taken.

2) Master Iza A M K o z n i e w s k a--granted by the Scientific Council of the Mathematical Institute of PAN in Warsaw, October 14, 1961, on the basis of the presented doctoral dissertation under the title Wlasnosci graniczne lancuchow Markowa (Limiting Properties of Markov Chains) and the doctoral examinations presented.

3) Master Rachela T a k s e r m a n-K r o z e r--granted by the Scientific Council of the Institute of General Chemistry in Warsaw, June 8, 1961 on the basis of the doctoral dissertation presented under the title Zachowanie sie sztywnych mikroczasteczek w polu predkosci o podluznym gradiencie (Behavior of Rigid Elementary Particles in the Velocity Field with an Oblong Gradient) and the doctoral examinations taken.

4) Master Andrzej Tadeusz K r z y w i c k i--granted by a resolution of the Scientific Council of the Institute of Atomic Research in Warsaw, June 15, 1961 on the basis of the doctoral dissertation presented under the title Zderzenia pionow i nukleonow w obszarze bardzo wysokiej energii (Collision of Perpendiculars and Nucleons in a Very High Energy Field) and the doctoral examinations taken.

5) Master Aleksander L e g a t o w i c z--granted by a resolution of the Scientific Council of the Institute of Atomic Research in Warsaw December 5, 1961 on the basis of the doctoral dissertation presented under the title of Zachowanie sie plazmy w wirujacym polu magnetycznym (Behavior of Plasm in a Gyating Magnetic Field) and the doctoral examinations taken.

6) Master Wojciech Z i e l e n k i e w i c--granted by a resolution of the Scientific Council of the Institute of Physical Chemistry of PAN in Warsaw October 30 1961 on the basis of doctoral dissertation presented under the title of Z badan nad metokyla pomiaru dlugotrwalych

efektów cieplnych za pomocą kalorymetru labiryntowego  
(From Research on the Method of Measuring Long-lasting Heat Changes Using a Labyrinth Calorimeter) and the doctoral examinations taken.

c) degree of Doctor of Technical Sciences /Engineering/

1) Master Engineer Wiesław Ciechanowicz--granted by a resolution of the Scientific Council of the Institute of Nuclear Research in Warsaw June 15, 1961 on the basis of the doctoral dissertation presented under the title Stany nieustalone procesów cieplnych w reaktorach jądrowych (Transient States of Heat Processes in Nuclear Reactors) and the doctoral examinations taken.

2) Master Engineer Jan A. Czubek--granted by the resolution of the Scientific Council of the Institute for Nuclear Research in Warsaw December 5, 1961 on the basis of a doctoral dissertation under the title Ilościowa interpretacja pomiarów naturalnego promieniowania gamma s metodach geofizyki jądrowej (Quantitative Interpretation of Measurements of the Natural Gamma Radiation in Nuclear Geophysical Methods) and the doctoral examinations taken.

3) Master Engineer Zbigniew Leszczyński--granted by a resolution of the Scientific Council of the Institute for General Chemistry in Warsaw March 22, 1962 on the basis of a doctoral dissertation presented under the title Studia nad reakcją utleniania izopropylbenzenu oraz reakcją rozkładu wodoronadtlenu izopropylbenzenu w obecności stałych katalizatorów miedziowych (Studies on the Reaction of the Oxidation of Isopropyl Benzene and the Reaction of the Decomposition of Isopropyl Benzene Hydrogen Peroxide in the Presence of Solid Copper Catalysts) and the doctoral examinations taken.

d) degree of Doctor

1) Doctor Stanisław Bałcerzyk--granted by a resolution of the Scientific Council of the PAN Mathematical Institute in Warsaw, January 27, 1962, on the basis of general scientific contributions and habilitational dissertation under the title On Classes of Abelian Groups.

2) Doctor Andrzej Graja--granted by a resolution of the Scientific Council of the PAN Mathematical Institute in Warsaw January 27, 1962 on the basis of general scientific contributions and the habilitational

dissertation under the title The Theory of Compact Vector Fields and Some of Its Applications to Topology of Functional Spaces.

3) Doctor Aleksander K r e g l e w s k i--granted by a resolution of the Scientific Council of the PAN Institute of Physical Chemistry in Warsaw, January 19, 1962 on the basis of general scientific contributions and the habilitational dissertation under the title Zjawiska krytyczne dwu i trojgladnikowych mieszanin cieklych (Critical Phenomena of Two and Three Ingredient Liquids).

4) Doctor Edward S z s i a d a--granted by the resolution of the Scientific Council of the PAN Mathematical Institute in Warsaw, November 14, 1961 on the basis of general scientific contributions and the habilitational dissertation under the title of Rozwiazanie problemu istnienia pierścienia prostego radicalnego w sensie Jacobsona (Solution to the Problem of the Existence of a Simple Radical Ring in Jacobson's Sense).

5) Doctor Jan S t e c k i--granted by a resolution of the Scientific Council of the PAN Institute of Physical Chemistry in Warsaw January 19, 1962 on the basis of general scientific contributions and the habilitational dissertation under the title of Molekularna teoria elektrostacyjnych oddziaływań między jonami w roztworze (Molecular theory of Electrostatic Effects between Ions in Solution).

6) Doctor Wojciech Z a k o w s k i--granted by a resolution of the Scientific Council of the PAN Mathematical Institute in Warsaw, January 27, 1962 on the basis of general scientific contributions and the habilitational dissertation presented under the title O pewnych zagadnieniach brzegowych funkcji analitycznych i własnościach całek osobliwych w przestrzeni (On Certain Problems of Border Analytic Functions and the Properties of Integrals in Space."

IV. Section on Technical Sciences by resolutions of February 10 and March 31, 1962 confirmed:

a) the degree of Doctor of Technical Sciences  
[Engineering]

1) Master Engineer Krzysztof G r a b o w s k i--granted by a resolution of the Scientific Council of the PAN Institute of Basic Technical Problems, Warsaw, December 7, 1961 on the basis of the doctoral dissertation presented

under the title Zastosowanie metody perturbacyjnej do analizy wzmacniacza i mieszacza parametrycznego (Application of Perturbation Method to the Analysis of the Amplifier and Parametric Mixer) and the doctoral examinations presented.

2) Master Engineer Eugeniusz P e l z n e r--granted by a resolution of the Scientific Council of the PAN Institute of Basic Technical Problems of PAN in Warsaw, January 11, 1962 on the basis of the doctoral dissertation presented under the title Teoria anteny dipolowej jako problem brzegowy (Theory of the Dipole Antenna as a Boundary Problem) and the doctoral examinations presented.

3) Master Engineer Jerzy Wehr--granted by a resolution of the Scientific Council of the PAN Institute of Basic Technical Problems, Warsaw, December 7, 1961 on the basis of the doctoral dissertation presented under the title Zastosowanie przetwornikow nieodbijajacych w miernictwie ultradźwiękowym (Application Non-reflecting Convertors in Super-sonic Metrology).

b) Degree of Docent

1) Doctor Engineer Andrzej S z a n i a w s k i--granted by a resolution of the Scientific Council of the PAN Institute of Basic Technical Problems in Warsaw, November 13, 1961 on the basis of general scientific contributions and a habilitational dissertation under the title Uwzględnienie zjawisk relaksacyjnych w równaniach przepływu i wpływu na strukturę słabej fali uderzeniowej (Recognition of the Relaxation Phenomena in Equations of the Flow and Effect on the Structure of Weak Shock Wave).

V. On the Qualification of the Commission of Scientific Workers at a session of the Presidium January 24, and April 14, 1962 confirmed:

a) the degree of Doctor of Technical Sciences  
/Engineering/.

1) Master Engineer Tadeusz M a n t h e y--granted by a resolution of the Scientific Council of the PAN Institute of Water Construction in Gdansk November 8, 1960 on the basis of Doctoral dissertation under the title of Możliwość skrócenia czasu napełniania szluz (Possibility of Decreasing the Time for Filling Sluices) and the doctoral examinations presented.

b) degree of Doctor of Agricultural and Forest

## Sciences.

1) Master Engineer Anna W i l k o j c--granted by a resolution of the Scientific Council of the Institute of Animal Husbandry and Plan Acclimatization, Warsaw, November 17, 1961 on the basis of the doctoral dissertation presented under the title Zastosowanie promieni podczerwonych do suszenia nasion (The Application of Infra-red Rays for Drying Seeds) and the doctoral examination taken.

The proper Sections of PAN confirmed the resolutions of the scientific councils of PAN agencies in relation to persons who began doctoral proceedings after November 20, 1958.

I. Section on Social Sciences by a resolution of March 7, 1962 confirmed:

a) the degree of Doctor of Humanities

1) Master Tadeusz K u z m i n s k i--granted by a resolution of the Scientific Council of the PAN Institute of History in Warsaw, December 5, 1961 on the basis of the doctoral dissertation presented under the title of Stosunki polsko-francuskie w latach 1933-35 (Polish-French Relations 1933-35) and the doctoral examinations taken.

II. Section on Biological Sciences by a resolution of February 26, 1962 confirmed:

a) degree of Doctor of Humanities

1) Master Jerzy Andrzej C h m u r z y n s k i--granted by a resolution of the Scientific Council of the M. Nencki Institute of Experimental Biology of PAN, Warsaw, November 18, 1961 on the basis of the doctoral dissertation presented under the title of Badania nad orientacją przestrzenną samic *Bembex rostrata* (L.) (Research on the Spatial Orientation of *Bembex rostrata* females (Latin Name)), and the doctoral examinations taken.

2) Master Urszula G r o d e c k a--granted by a resolution of the Scientific Council of the PAN Institute of Immunology and Experimental Therapy in Wrocław, June 17, 1961 on the basis of the doctoral dissertation presented under the title Antygenowy charakter kroliczych przeciwciał odpornościowych (Antigene Nature of Resistant Antibodies of Rabbits) and the doctoral examination taken.

3) Master Marian K o c h m a n--granted by a resolution of the Scientific Council of the PAN Institute of Experimental Immunology and Therapy in Wroclaw, June 16, 1961 on the basis of the doctoral dissertation presented under the title of Zachowanie sie zwiazkow fosforanowych podczas glikolizy i oddychania w przezywajacych miesniach (Behavior of Phosphate Compounds during Glycolysis and Breathing in Surviving Muscles) and the doctoral examinations taken.

4) Master Stanislaw K u k i e w i c a--granted by a resolution of the Scientific Council of the Nencki Institute of Experimental Biology of PAN in Warsaw, October 28, 1961, on the basis of the doctoral dissertation presented under the title Badania nad przedluzaniem elektronarkozy i skurczu galwanicznego (Research on Extension of Electronarcosis and Voltaic Contraction) and the doctoral examinations taken.

5) Master Benedykt Maciej M r o c z k o w s k i--granted by the Scientific Council of the PAN Zoological Institute in Warsaw, December 19, 1961 on the basis of the doctoral dissertation presented under the title Dermestidae Kazachskiej SRR (Coleoptera) (Dermestidae of the Kazak Soviet Republic and the doctoral examinations taken.

6) Master Wlodzimierz S z e r--granted by a resolution of the Scientific Council of the PAN Institute of Biochemistry and Biophysics in Warsaw, November 14, 1961, on the basis of doctoral dissertations presented under the title of Synteza niektorzych sztucznych nukleotydow, oligo- i poli-nukleotydow oraz badanie ich wlasciwosci fizyko-chemicznych i reakcji enzymatycznych (The Synthesis of Some Synthetic Properties and Enzymatic Reactions) and research on Their Physico-Chemical Properties) and the doctoral examinations taken.

7) Master Gezary J N T o m a s z e w s k i--granted by a resolution of the Scientific Council of the PAN Zoological Institute in Warsaw, November 23, 1961, on the basis of doctoral dissertation under the title Rewizja morfologiczno systematyczna gatunkow z rodziny Hydropsychidae (Trichoptera) Polski (A Morphologico-systematic Revision of the Species of the Family Hydropsychidae (Trichoptera) of Poland) and the doctoral examinations taken.

8) Master Anna Bronislawa W o j t c z a k--granted by a resolution of the Scientific Council of the M Nencki Institute of Experimental Biology of PAN in Warsaw, November

18, 1961 on the basis of doctoral dissertation presented under the title Badania nad endogennym czynnikiem z mitochondriow owadow rozprzegajacym oksydacyjna fosforylacje (Research on the Endogen Factor from Insects) and the doctoral examinations taken.

III. Section on Mathematico-Physical, Chemical, and Geologico-Geographical Sciences by a resolution of March 5, 1962 confirmed:

a) degree of Doctor of Natural Sciences

1) Master Wlodzimierz D a n i e w s k i--granted by a resolution of the Scientific Council of the PAN Institute of Physical Chemistry in Warsaw, December 8 1961 on the basis of the doctoral dissertation presented under the title Polifluror-alkilowe pochodne boru (Polyfluor Alkine Derivatives of Boron) and the doctoral examinations taken.

2) Master Sylvia C i l e w s k a--granted by a resolution of the Scientific Council of the PAN Geographic Institute in Warsaw, January 20, 1962, on the basis of doctoral dissertation presented under the title of Rzezba progu srodkowotriasowego w okolicy Bedzina (Sculpture on the Threshold of the Middle Trias Era in the Bedzin Region) and the doctoral examinations taken.

3) Master Stanislaw M i s z t a l--granted by a resolution of the Scientific Council of the PAN Geographic Institute in Warsaw November 24, 1961 on the basis of the doctoral dissertation presented under the title Warszawski okreg przemyslowy. Studium rozwoju i lokalizacji przemyslu (Warsaw Industrial Region. Study on the Development and Localization of Industry).

4) Master Lech Marian T e l l e r--granted by a resolution of the Scientific Council of the PAN Laboratory (Zaklad) of Geological Sciences in Warsaw, February 17, 1962 on the basis of doctoral dissertation presented under the title of Stratygrafia i fauna grabtolitowa ludlowu z wiercenia Cheim (Stratigraphy and Fauna of the Ludlow from the Cheim Explorations) and the doctoral examinations taken

b) degree of Doctor of Mathematico-Physical Sciences

1) Master Stanislaw Stefan F u r o w s k i--

granted by a resolution of the Scientific Council of the PAN Institute of Physical Chemistry in Warsaw, January 19, 1962 on the basis of the doctoral dissertation presented under the title Wplyw zdolnosci polaryzujacej kationow na parametry linii Ramana metanolu w roztworach nadchloranow (The Influence of the Polarizing Capacity of Cations on the Parameters of the Raman Lines of Methanol in Perchlorate Solutions) and the doctoral examinations presented.

2) Master Jerzy M y c i e l s k i--granted by a resolution of the Scientific Council of the PAN Institute of Physics, Warsaw, November 15, 1961, on the basis of the doctoral dissertation presented under the title of Z teorii przewodnictwa domieszkowego w polprzewodnikach (From the Theory of Conductivity of impurity in Semiconductors) and the doctoral examinations taken.

3) Master Tadeusz N i e m y j s k i--granted by a resolution of the Scientific Council of the PAN Institute of Physics in Warsaw, November 15, 1961 on the basis of a doctoral dissertation presented under the title of Badania nad otrzymywaniem i wlasnosciami czystego boru jako materialu dla polprzewodnikow (Research on Obtaining and the Properties of Pure Boron as a Material for Semiconductors) and the doctoral examinations taken.

IV. Section on Technical Sciences by a resolution of March 10, 1962 confirmed.

a) degree of Doctor of Technical Sciences [Engineering]

1) Master Jawiga C h r u s c i e l--granted by a resolution of the Scientific Council of the PAN Institute of Water Construction in Gdansk January 11, 1962, on the basis of the doctoral dissertation presented under the title of Metoda ustalania prognozy sezonowych warunkow tlenowych w morskich basenach portowych odbierajacych scieki z oczyszczalni miejskich (na przykladzie Gdanska) Conditions in Sea Harbour Basins which City Sewage-treatment Plants Flow into (after the Example of Gdansk)) and the doctoral examinations taken.

2) Master Jerzy Jozef K u r l a n d z k i--granted by a resolution of the Scientific Council of the PAN Institute of Basic Technical Problems in Warsaw, January 11, 1962 on the basis of the doctoral dissertation presented under the title of O pewnej metodzie rozwiazania problemow



brzegowych walca, prostopadloscianu i plyt sprzystych (On a Certain Method for Solving Problems of the Boundary Cylinder, Cubicoid, and Elastic Plates and the doctoral examinations taken.

3) Master Engineer Stanislaw M a j e r s k i--granted by a resolution of the Scientific Council of the PAN Institute for Basic Technical Problems in Warsaw, June 15, 1961 on the basis of the doctoral dissertation presented under the title of Kontrola wagowa dzialan arytmetycznych w szeregowych maszynach cyfrowych (Weight Control of Arithmetic Operations in Series Digital Computers) and the doctoral examinations taken.

4) Master Engineer Zygmunt S a w i c k i--granted by a resolution of the Scientific Council of the PAN Institute on Basic Technical Problems, November 13, 1961 on the basis of the doctoral dissertation presented under the title of Analiza i synteza sieci zakonczona elementem pamiesciowym (Analysis of Synthesis of a Net Finished by a Memory Element and the doctoral examinations taken.